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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/762,534	01/23/2004	Kenji Nishimura	248054US8	4975
22850	7590	06/25/2009	EXAMINER	
OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314				HUYNH, NAM TRUNG
ART UNIT		PAPER NUMBER		
2617				
			NOTIFICATION DATE	DELIVERY MODE
			06/25/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com
oblonpat@oblon.com
jgardner@oblon.com

Office Action Summary	Application No.	Applicant(s)	
	10/762,534	NISHIMURA ET AL.	
	Examiner	Art Unit	
	NAM HUYNH	2617	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 04 February 2009.

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 2-4,7-11,14 and 16-18 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 2-4,7-11,14 and 16-18 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____ .
3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)	5) <input type="checkbox"/> Notice of Informal Patent Application
Paper No(s)/Mail Date <u>6/5/09</u> .	6) <input type="checkbox"/> Other: _____ .

DETAILED ACTION

Response to Amendment

This office action is in response to amendment filed on 2/4/09. Of the previously presented claims 2-4, 7-11, 14, and 16-18; claims 2- 4, 7-11, 14, and 16-18 were amended.

Information Disclosure Statement

1. The information disclosure statement (IDS) submitted on 6/5/09 has been considered by the examiner.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
3. Claims 2-4, 7-11, 14, 16-18 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 2, lines 1-9 of the claim recites a communication system comprising: a communication terminal device, a plurality of low order switching devices, a plurality of base stations, a plurality of secondary low order switching devices, and a high order switching device which describes a specific structure of the system. The remainder of the claim recites: a first determiner, a first transmitter, a first generator, a

second generator and a second transmitter that perform a specific function for transmitting packet data in a multicast manner. The claim is indefinite because there is no linking or association between the devices of the system (communication terminal device, high order switching device, etc.) and the components (first determiner, first transmitter, etc.). Without this distinction the different components can be interpreted to be in any of the system devices or any combination thereof which renders the claim indefinite.

Regarding claim 3, the limitations are rejected for the reasons applied to claim 2.

Regarding claim 7, the preamble of the claim, lines 1-3, recite a multicast switching device configured to transmit packet data in a multicast manner when a communication terminal device transmits data to a mobile terminal through a plurality of base stations. The claim implies that the multicast switching device is between or at a lower level of hierarchy than the communication terminal device because it transmits data in a multicast manner when a communication terminal device transmits (highest level) data to a mobile terminal through a plurality of base stations (lowest level). Based on the levels of hierarchy and specific structure of the system, the subject matter of the claim implies that the multicast switching device is either the high or low order switching device. In lines 13-17 of the claim, the “said transmission target packet data includes packet data transmitted to a high order switching device and based on a number of low order switching devices that are destinations of multicast transmission by the high order switching device”. The subject matter of this limitation implies that data is transmitted to the high order switching device for which the low order switching devices are a

destination. The linking between the preamble and this limitation is indefinite because the preamble implies that the “multicast switching device” is either a high or low order switching device, but according to the aforementioned limitation, data is transmitted to a high order switching device for which a low order switching device is a destination. The claim is indefinite because a device can not transmit data to itself in the case the “multicast switching device” is a high order switching device, nor can it transmit data intended for itself, in the case the “multicast switching device” is a low order switching device.

Regarding claims 8 and 10, the limitations are rejected for the reasons applied to claim 7.

Regarding claims 4, 9, 11, and 16-18, the limitations are rejected because they are dependent on the independent claims above.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claim 9 is rejected under 35 U.S.C. 102(b) as being anticipated by Langlet et al. (US 5,930,248).

Langlet teaches a communication method wherein a communication terminal device (figure 1, item 14; PSTN) transmits data to a mobile terminal through a plurality of base stations (figure 1, item 20; BTS), comprising:

a plurality of switching devices transmitting, via a high order switching device (MSC), packet data in a multicast manner to a plurality of low order switching devices (BSC) included in communication paths between the communication terminal device and the plurality of base stations (column 5, lines 35-38; data is transmitted through multicast channels);

transmitting the packet data in a multicast manner from the plurality of low order switching devices to the plurality of base stations (column 5, lines 45-60; BSC allocates multicast channels for transmission);

determining a transmission time for the high order switching device and each of the plurality of low order switching devices to transmit packet data resulting in simultaneous data reception at the mobile terminal (column 9, lines 20-40; MSC may control multicast allocation),

transmitting packet data resulting in simultaneous data reception at the mobile terminal, based on the transmission timing determined by the determining (column 5, lines 35-38); a multicast transmission means that data is transmitted for simultaneous data reception at the mobile unit); and

generating a plurality of radio slot data (timeslots), based on transmission target packet data (column 5, lines 35-45; timeslots are allocated for the data to be sent on the multicast channel).

Allowable Subject Matter

6. Claims 2-4, 7-11, and 16-18 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.
7. Applicant's arguments with respect to claim 9 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to NAM HUYNH whose telephone number is (571)272-5970. The examiner can normally be reached on 8 a.m.-5 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, George Eng can be reached on 571-272-7495. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/George Eng/
Supervisory Patent Examiner, Art Unit 2617

/Nam Huynh/
Examiner, Art Unit 2617